May 16, 2023
Legislative Water Development Commission

Water Supply Update

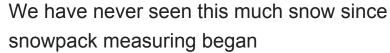




Joel Ferry | Executive Director Utah Department of Natural Resources

Record Snowpack

- Record snowpack across the state has increased the potential for flooding, landslides and debris flows
- Snowpack peaked at 30 inches of snow water equivalent (SWE), versus 12 inches last year
 - Current SWE is 12.6 inches (still higher than last year's total and we've been melting since the first week in April)

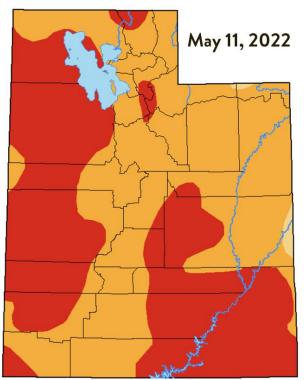


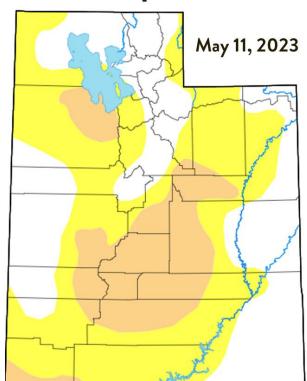






Drought Monitor Comparison





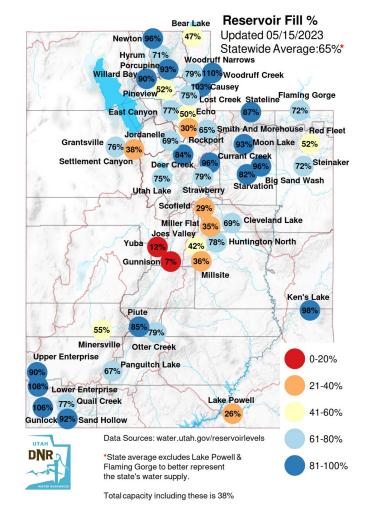






Reservoirs Across the State

- Water managers are releasing water to make room for runoff
 - Many are already very full
- With the exception of our very largest lakes and reservoirs like Strawberry, Great Salt Lake and Lake Powell, our reservoirs are expected to fill

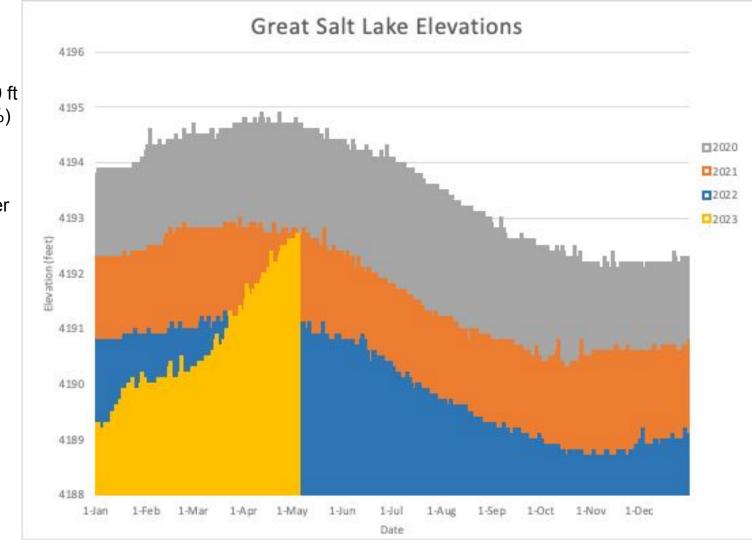


South Arm

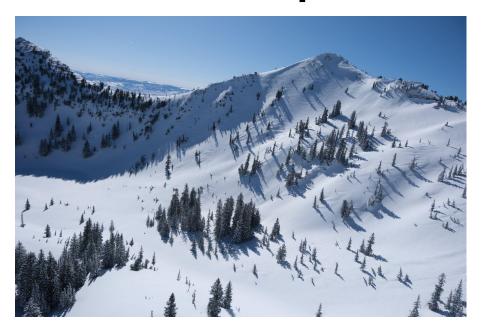
Lake Elevation: 4192.9 ft Salinity: 154 g/L (~14%)

The lake has come up over 4' since hitting a record low in November



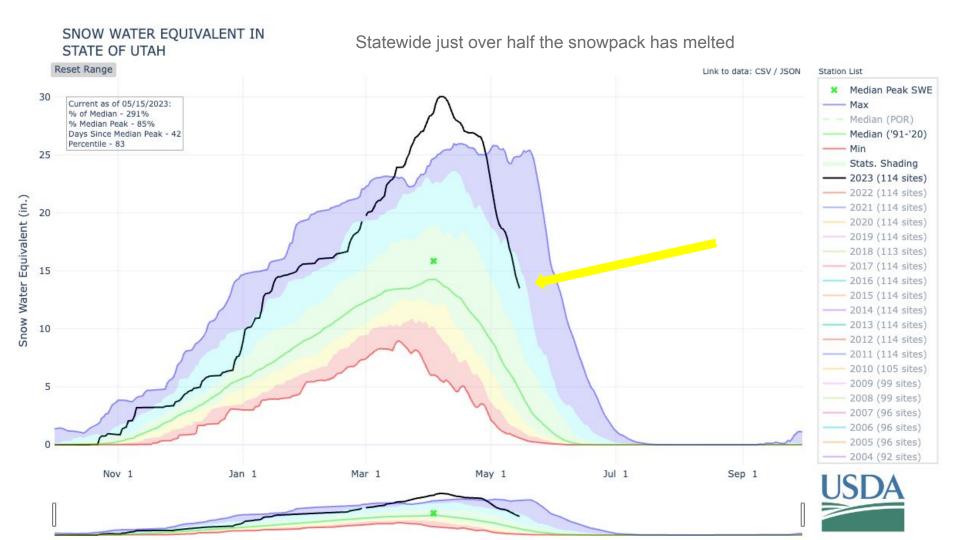


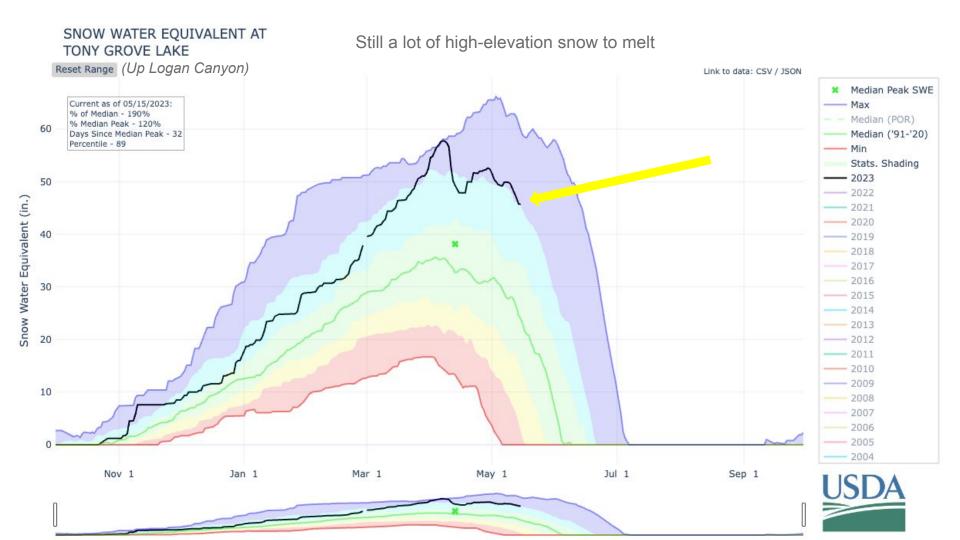
Runoff Update

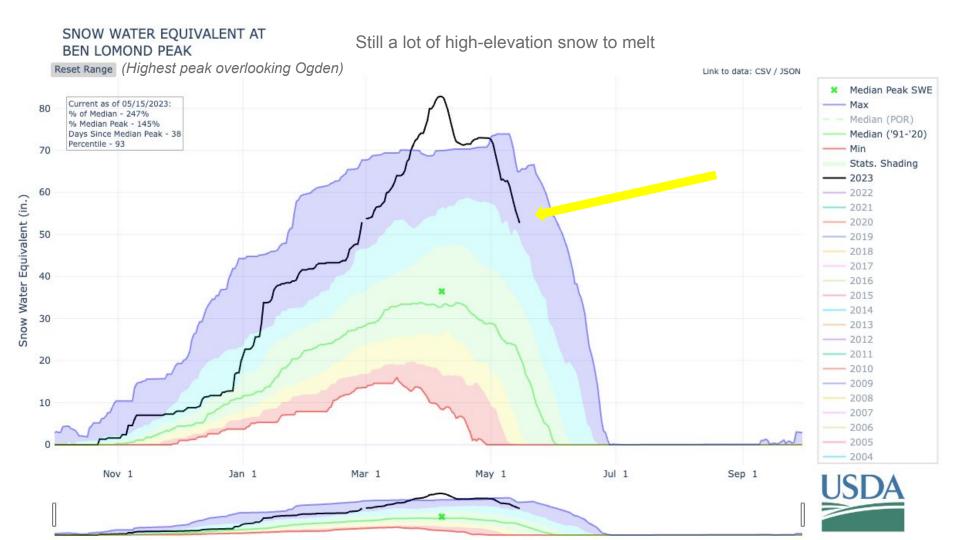


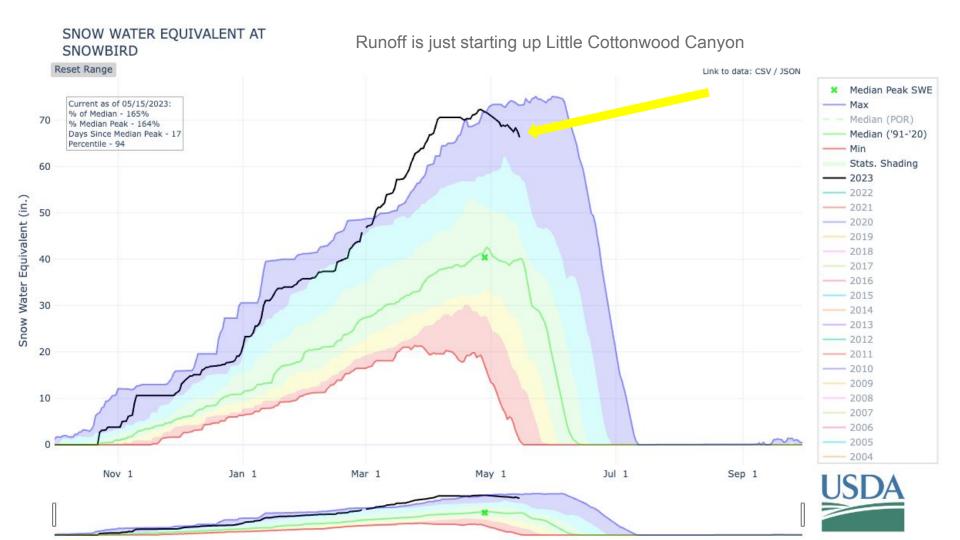
- Low-elevation and a lot of mid-elevation snow has melted
- High-elevation snow is just starting to melt
- Peak flows typically occur between the first and second week in June

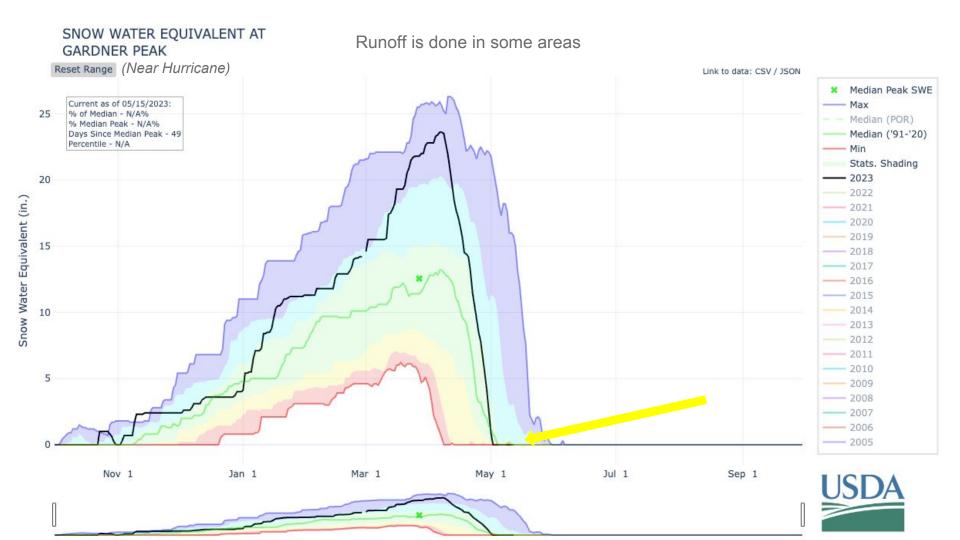


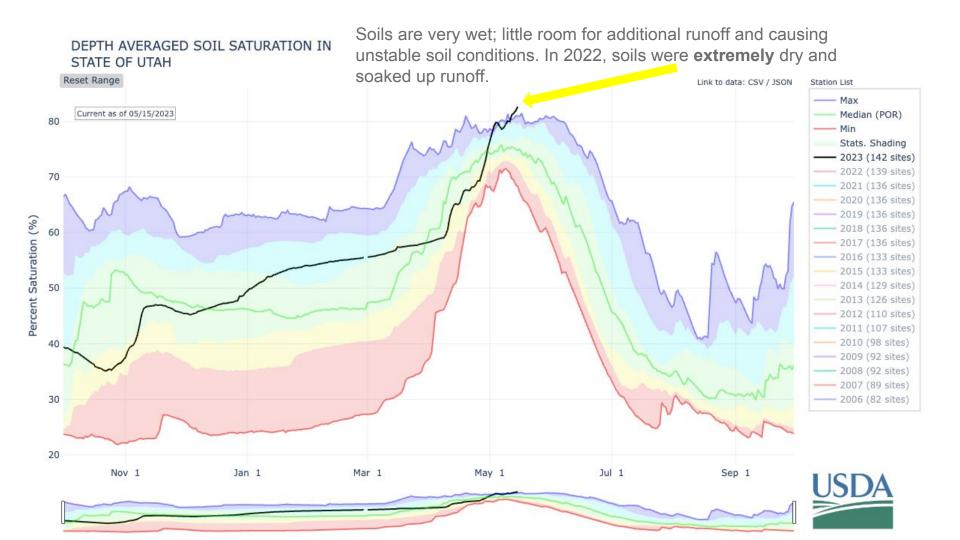












Record Snowpack Triggering Mudslides & Landslides

- Mudslides are closing roads
- Homes are being evacuated because of damaging landslides
 - Two Draper homes slid into a canyon
- Homes are experiencing groundwater flooding because the water table is so high

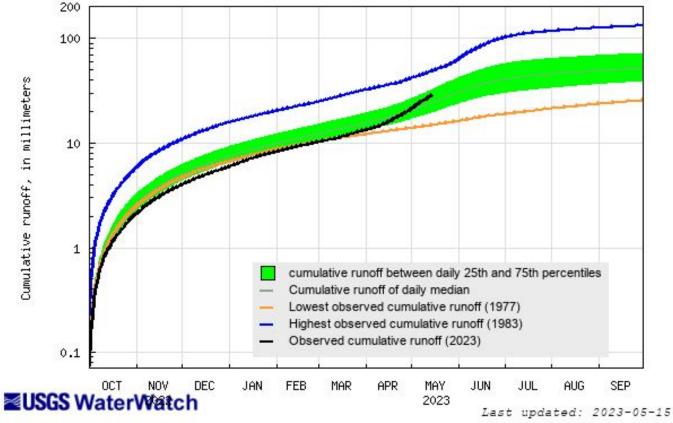


Record Snowpack Causing Flooding



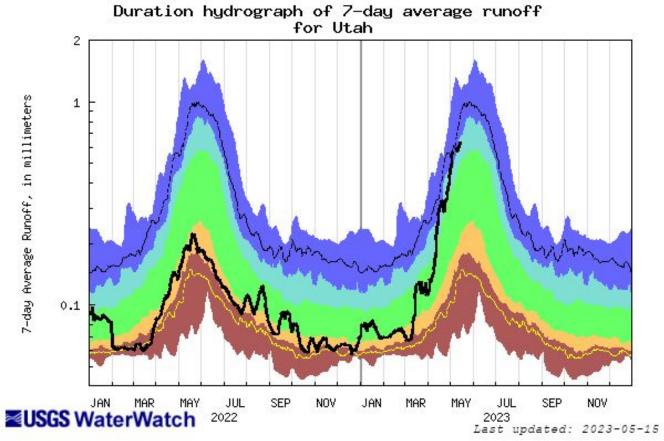
- Ranchers along the Bear
 River have already lost cattle
 and are incurring extra costs
 to move them to higher
 ground
- Flooded fields are putting crops at risk because it's too wet to plant

Hydrograph of cumulative 7-day average runoff for Utah



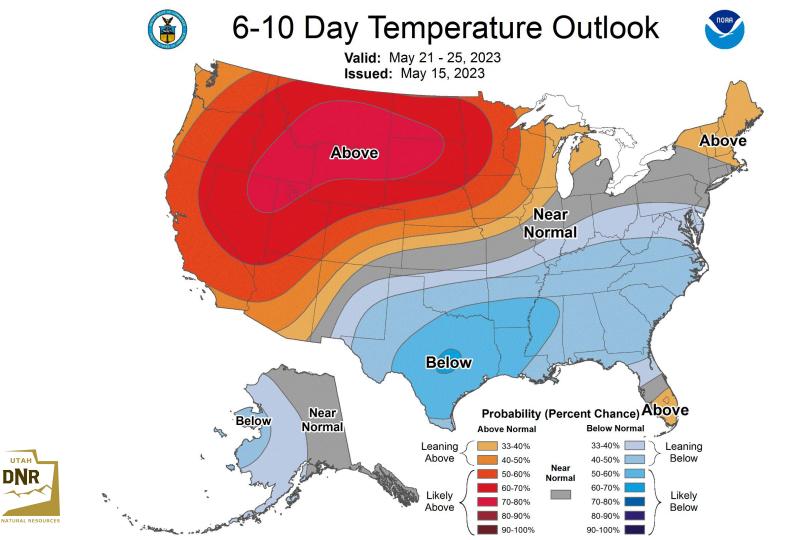


	Е	xplana	tion - Pe	rcentile	classes	3	
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lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff
Much below Normal		Below normal	Normal	Above normal	Much above normal		0 0 00 1 1 00 10





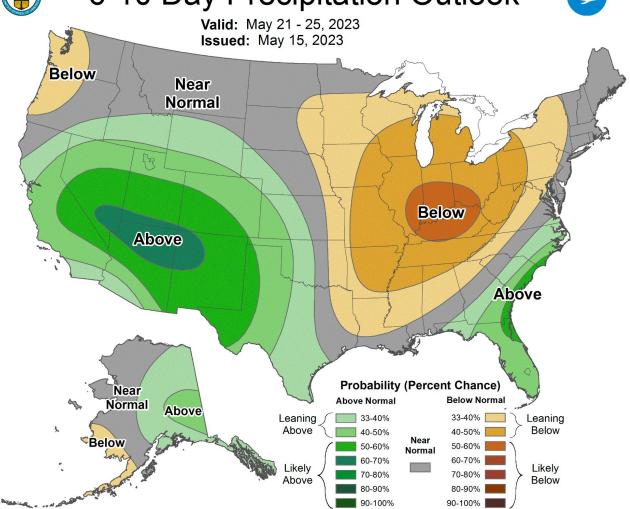
Explanation - Percentile classes											
lowest- 10th percentile	5	10-24	25-75	76-90	95	90th percentile -highest	Runoff				
Much below Normal B		Below normal	Normal	Above normal	Much above normal		0 0 000 1 100 10				





6-10 Day Precipitation Outlook







Emergency Declaration



- Streamlines state government processes
- Encourages emergency permitting measures as appropriate and mobilizes resources
- Allows the state to tap into the State Disaster Recovery Account
- Unlocks federal resources after certain thresholds are met
- Raises public awareness



Be Prepared

- Long way to go before record-deep snowpack melts and flood risks and cleanup are behind us
- Extending the emergency declaration helps ensure we have the resources in place – especially as temperatures heat up
- More information at <u>Floods.Utah.Gov</u>







Thank you.

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